DIRECTED®

SMARTSTART® BLUETOOTH® Module

Quick Reference User's Guide

DSM50BT

Congratulations on the purchase of your state-of-the-art Directed SmartStart Bluetooth system. Reading this user's guide prior to using your system will get you off to a quick and smooth start.

Start Here

Before you can start using your system, the following steps must be performed:

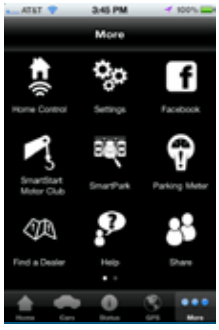
1. Download the free Directed SmartStart app from iTunes App Store or Android Market, depending on the type of smartphone you own.

2. Have the DSM50BT system installed by your authorized Directed dealer. Your installer can also provide you with information about your system.

3. Follow the steps below to finish connecting your smartphone to your installed DSM50BT module.

Note: Your DSM50BT may be used as a standalone unit or connected to an existing Directed system. As a result functionality/screen appearance may differ slightly across systems.

Set up your app to connect with DSM50BT

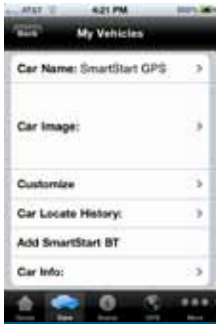


More Screen

Settings-Mode 1&2

Cars Screen-Demo

Cars Screen-Detail



Cars Screen-Active

1. [All phones] Place your DSM50BT system in discovery mode by holding down the pairing button on the module until the LED turns blue (pairing button is the one furthest away from the LED)
2. [iPhone only, Android skip to step 3] Open your phone's Bluetooth menu, make sure Bluetooth is turned on. Look for your DSM50BT device name on the list of available Bluetooth devices (SmartStartBT-xxxx). Tap on the device name to pair your phone to it. The blue LED on your DSM50BT module begins flashing quickly when it connects to your phone at the end of the pairing process, then turns solid blue to indicate successful connection.
3. [All phones] Open your SmartStart app, then go to More/Settings and turn on the Bluetooth switch at the bottom of that page.
4. [iPhone only, Android skip to step 5] The app automatically navigates to the Cars tab so you can program your DSM50BT system to the app. There are two ways to do this, depending on whether you have the DSM50BT as a standalone system (mode 1) or added to an existing full Directed SmartStart system (mode 2). Follow the appropriate directions below:
   a. Mode 1 (DSM50BT-only): On the Cars tab, tap the "Add a SmartStart BT system" button. The app pops up the name of your connected device (SmartStartBT-xxxx). Select the device you want to add to the app, then use the editing functions to add your vehicle name and a picture. If you have more than one DSM50BT system to add to the app, repeat these steps for each system that appears on the device list.
   b. Mode 2 (DSM50BT added to full Directed SmartStart system): Log in to your Directed SmartStart account at More/Settings/SmartStart Login page. After you are logged in, go to the Cars tab and personalize your vehicle list with names and pictures. Then select the Cars detail page and use the "Add SmartStart BT" to associate your DSM50BT system with the vehicle it is installed in.
5. [Android] Turning on the Bluetooth switch pops up a list of available DSM50BT systems to add to the app. Follow the appropriate directions below:
   a. Mode 1 (DSM50BT-only): Select the device you want to add, then use the editing functions to add your name and a picture. If you have more than

one DSM50BT system to add to the app, repeat these steps for each system that appears on the device list.

b. Mode 2 (DSM50BT added to full Directed SmartStart system): Log in to your Directed SmartStart account at More/Settings/SmartStart Login page. After you are logged in, go to the Cars tab and personalize your vehicle list with names and pictures. Then select the Cars detail page and use the "Link SmartStart BT" to associate your DSM50BT system with the vehicle it is installed in.

6. [All phones] When you have finished setting up your app to connect with your DSM50BT system, you can send commands from the main UI page. The app automatically detects whether you are connected to DSM50BT systems and routes your commands over the high speed Bluetooth connection any time it is available.
7. Advanced operating features: please visit www.directed.com/smartstart/smartstartbt to read or download the complete user guide.

Basic Commands at a Glance

Commands	Description
	Select this icon to lock the vehicle. When a confirmation message is received, select it to clear.
	Select this icon to unlock the vehicle. When a confirmation message is received, select it to clear.
	Select this icon (if applicable) to remote start* your vehicle. When a confirmation message is received, select it to clear. The vehicle remote starts and stays running for the programmed run time*. Select this icon again to turn off the engine during the run time.
	Select this icon to open trunk. A dialog box opens, asking you to confirm you want to open the trunk. Select "Yes" to confirm, or "No" to cancel the request.
	Select this icon to activate panic mode for 30 seconds. Select again during this time to turn off.

* See your Remote Start system user's guide or installer for important information about starting a manual transmission vehicle and how long the engine will run when remote started.

Menu Bar at a Glance

Menu Bar Tab		Description
	Home	This screen is the default screen for direct access to all your remote commands. Select any command on the Home screen to perform it.
	Cars	This screen allows you to access and personalize your vehicle settings.
	Status	Requires compatible Directed SmartStart GSM hardware with service plan. Refer to user guide for that hardware.
	GPS	Requires compatible Directed SmartStart GSM/GPS hardware with service plan. Refer to user guide for that hardware.
	More	Access settings and other advanced app features. Go to More/Settings to log in to Directed SmartStart, and use in-app Help function to explore additional feature details.

"Made for iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone may affect wireless performance.

Note: The amount of time it takes for your vehicle to respond to a command can be affected by range and proximity to vehicle. Please visit www.directed.com/SmartStart for the latest updates and more information.

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SMARTSTART® BLUETOOTH® Module

Quick Reference Install Guide

VSM50BT/DSM50BT/ASM50BT

Introduction

This product can be used as a standalone product or in conjunction with an existing Directed product. It is compatible with most Directed Security, Remote Start and hybrid systems. This guide also assumes that the user has already downloaded the bluetooth app to their smartphone, its required for installation testing.

First determine whether the system is being installed as a standalone or being connected to an existing product. If being used with an existing product, determine whether the 8210 RF adapter kit is also required. If the existing product uses 4-pin RF connectors, you will need the 8210 RF adapter kit. Start with the following installation procedure then go to the appropriate standalone or existing product procedure and follow the instructions provided.

Installation Procedure

First, determine an appropriate location for the DSM50BT module such as along the dashboard. It is recommended that you mount the module in the highest unobstructed position possible. This offers the best signal reception. The harness length and wiring route through the dashboard may also dictate the position chosen.

Note: Do not extend harnesses beyond the manufactured length.

The DSM50BT module comes with a mounting bracket and hardware. Mount this bracket first using the provided hardware and insert the module into it.

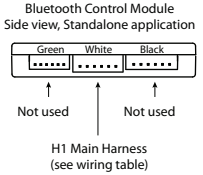
Note: Caution should be taken when mounting the bracket due to possible interference with existing harnesses or equipment around or behind the mounting position.

As a Standalone

1. Connect the unterminated end of the H1 main harness first using the following wiring table and diagram.
2. Connect the H1 connector end to the middle port (white)of the module.

H1 6-pin Harness		
Pin #	Wire Color	Connection/Description
1	Red	+12V
2	Black	GND
3	Green	Lock (output 1)
4	Blue	Unlock (output 2)
5	White	Start/Stop (output 4)
6	Pink	Trunk (output 3)

Wiring Diagram for Standalone



With an Existing Product

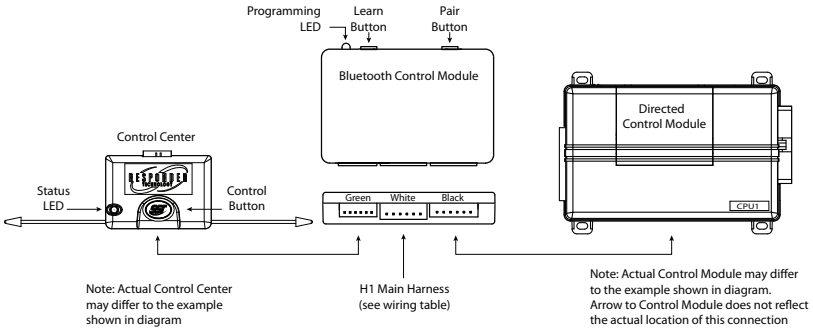
1. Unplug the existing control center (IVU) cable.
2. Connect the H2 harness from the green port of the DSM50BT module to the control center (see note).
3. Now connect the disconnected end of the control center cable to the black porton the module (see note).
4. Terminate only the required loose wires of the H1 main harness first using the following wiring table and diagram.
5. Connect the H1 connector end to the white port of the DSM50BT module .

Note: If the supplied cables do not fit the Directed system, then the system requires the 8210 RF adapter kit which is sold separately.

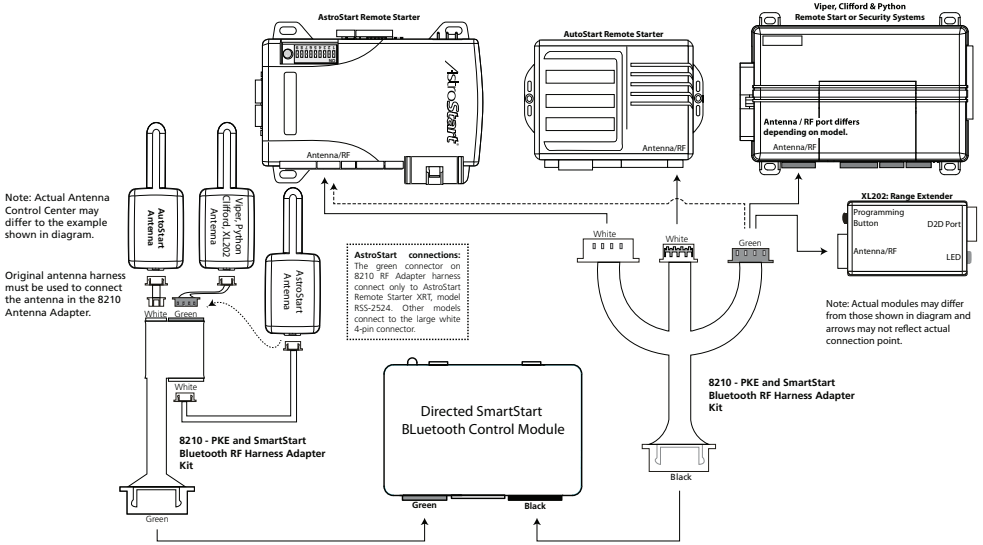
H1 6-pin Harness		
Pin #	Wire Color	Connection/Description
1	Red	+12V
2	Black	GND
3	Green	Not Connected
4	Blue	Not Connected
5	White	Not Connected
6	Pink	Not Connected

Note: Cut unused wires back to harness sleeve to prevent possible shorts.

Wiring Diagram for use with Existing Product using 6-pin RF connectors


Programming LED
Learn Button
Pair Button
Bluetooth Control Module
Control Center
Status LED
Control Button
Green
White
Black
Directed Control Module
CPU1
Note: Actual Control Center may differ to the example shown in diagram
H1 Main Harness (see wiring table)
Note: Actual Control Module may differ to the example shown in diagram. Arrow to Control Module does not reflect the actual location of this connection

Optional 8210 RF adapter wiring diagram (if required).


AstroStart Remote Starter
AutoStart Remote Starter
Viper, Clifford & Python Remote Start or Security Systems
Antenna / RF port differs depending on model.
Antenna/RF
Note: Actual Antenna Control Center may differ to the example shown in diagram.
Original antenna harness must be used to connect the antenna in the 8210 Antenna Adapter.
AstroStart Antenna
Viper, Python Clifford, XL202 Antenna
White
Green
AstroStart connections: The green connector on 8210 RF Adapter harness connect only to AstroStart Remote Starter XRT, model RSS-2524. Other models connect to the large white 4-pin connector.
XL202: Range Extender
Programming Button
D2D Port
LED
Note: Actual modules may differ from those shown in diagram and arrows may not reflect actual connection point.
8210 - PKE and SmartStart Bluetooth RF Harness Adapter Kit
Directed SmartStart BLuetooth Control Module
Black
Green

To Pair the Smartphone to the DSM50BT module:

1. Press and hold the Pair button on the module for ten seconds, continue holding until the red LED (approximately five seconds) changes to solid blue.
2. Release the Pair button. The blue LED begins flashing to indicate Pairing mode. **Note**: Perform the next steps within sixty seconds or the unit will exit pairing mode.
3. Turn on the Bluetooth feature of your cellular device, enter the pairing menu and select "SmartStartBT- ####" from the available devices list. Each Directed DSM50BT device has a unique ID.
4. The Blue LED begins flashing rapidly to indicate successful pairing and connection between the smartphone and Directed DSM50BT device.
5. The DSM50BT automatically exits pairing mode when it connects to the smartphone, but you can also exit manually at any time by pressing and releasing the Pair button.

Note: The system can only be connected with one smartphone at a time. If you need to pair a second phone, turn off Bluetooth on the first phone or move it out of range before you attempt to pair and connect the second phone.

Notes: Bluetooth response time can vary depending on range and proximity to the vehicle. Operating temperature range: -30°C to + 70°C.

Additional information can be found at: **www.directechs.com**

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Programming the System

When installing the SmartStart Bluetooth system in standalone mode, read and follow the steps for "Feature Programming Procedure".

If the system is being connected to a host security/remote start system, the SmartStart Bluetooth device acts as an additional transmitter to control that system. During the programming procedure, you will be selecting the RF mode while simultaneously programming the security/remote start system to learn the SmartStart Bluetooth system as a new transmitter.

Note: The programming sequence for RF selection and RF learn is one complete, streamlined process that requires programming steps in both the Bluetooth device and the main system. Failure to follow the steps exactly as outlined below may result in having to go back and reprogram one or both systems.

Feature Programming Procedure:

Note: If you are programming a standalone unit, follow menu items 1 through 7 and skip Menu items 8 and 9. If you are programming a unit that will be connected to a security/remote start system via RF cable, follow the RF Learning 1 or RF Learning 2 procedure and skip menu items 1 through 7.

1. Disconnect power from the unit and then reconnect and power the unit.
   Note: Programming can only be done within sixty seconds of the unit being powered up, if the time has elapsed before you have entered programming you can power the unit down and up again to enter programming again.
2. Press and hold the Learn and Pair buttons simultaneously for five seconds (within sixty seconds of power up), the Red LED comes on solid.
3. Release the buttons. The Red LED shuts off and starts flashing once every two seconds to confirm entry into the feature list, menu item #1.
4. Press/release the Learn button to advance to the next feature in the menu (see Feature Option Menu). The Red LED flashes the corresponding number of times as the menu item # you have selected.
   Example: 3 red LED flashes at a time = Menu item #3
   Note: If the number of menu items is exceeded, the routine loops back to Menu Item 1.
5. To access the available options for a selected feature in the menu, press/release the Pair button; the Blue LED flashes the corresponding number of times as the option # you have selected (see Features Option Menu).
   Example: 3 Blue LED flashes at a time = Opt. 3
   Note: If the number of options is exceeded, the routine loops back to Opt 1.
6. Once a desired option is reached, press/release the Learn button to save the option, change and advance to the next feature on the menu, or continue to press/release the Learn button until another desired feature is reached.
7. Press and hold the Learn and Pair buttons simultaneously for five seconds to exit programming manually or wait sixty seconds for the module to automatically exit feature programming. The LED flashes Blue/Red for one second to confirm feature programming has been exited.

Feature and RF Options Menu

Default settings are in **bold** type.

Menu Item	Feature	Opt. 1	Opt. 2	Opt. 3	Opt.4	Opt. 5+
1	Lock output	**.8s**	.4s	3.5s	.4s x2	
2	Unlock output	**.8s**	.4s	3.5s	.4s x2	
3	Comfort Close	**Off**	CC1	CC2		
4	Output 1 type	**Lock**	Unlock	Trunk	Start	5. Aux 1 6. Aux 2
5	Output 2 type	Lock	**Unlock**	Trunk	Start	
6	Output 3 type*	Lock	Unlock	**Trunk**	Start	
7	Output 4 type*	Lock	Unlock	Trunk	**Start**	
8	RF Learning 1	**Off (flex out)**	Keeloq	Supercode	Astro	
9	RF Learning 2 Autostart **	**HDR-AM-TYPE1**	HDR-AM-TYPE2	HDR-AM-TYPE3	HDR-AM-TYPE4	5. HDR-FM 6. LDR-FM
10	Factory Reset					

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* Do not change the Trunk and Start default values for features; Output 3 type and Output 4 type (Menu Item 6 & 7). If these default settings are selected for Menu Item 6 & 7, the following will result:

- Selecting Opt. 3 for Output 3 type will result in both Output 3 and Output 4 wires activation when a Trunk command is sent.
- Selecting Opt. 4 for Output 4 type will result in both Output 3 and Output 4 wires activation when a Start command is sent.
- Selecting Opt. 3 for Output 3 and Opt. 4 for Output 4 will result in the output wire activations being swapped relative to app command sent.

If you inadvertently program these two Outputs to one or more of the above configurations, you can clear and restore factory default settings using Factory Reset (Menu Item 10).

** For Autostart models, look up the RF mode Option number using the Autostart RF type Table on page 2.

Feature and RF Option descriptions

1. Lock output: Selects pulse duration
   0.8 sec.: the lock output pulses = 800 ms
   0.4 sec.: the lock output pulses = 400 ms
   3.5 sec.: the lock output pulses = 3.5 sec
   4s X2: the lock output pulses twice with each pulse 400 ms in duration
2. Unlock output: Selects pulse duration
   0.8 sec.: the unlock output pulses = 800 ms
   0.4 sec.: the unlock output pulses = 400 ms
   3.5 sec.: the unlock output pulses = 3.5 sec
   4s X2: the unlock output pulses twice with each pulse 400 ms in duration
3. Comfort Closure: Selects CC type for the Lock output wire
   Off: Comfort Closure is defeated when locking
   Comfort Closure 1: the door lock pulse (or 2nd pulse for double pulses) remains on for 20 seconds.
   Comfort Closure 2: 800 mS following the end of the door lock pulse (or 2nd pulse for double pulses); the door lock output turns on again for 20 seconds.
4. Output 1-4 type selects the function of the Output 1-4 wire
   - Opt 1 Lock: Output 1 operates as a Lock output
   - Opt 2 Unlock: Output 1 operates as an Unlock output
   - Opt 3 Trunk: Output 1 operates as a Trunk Release output
   - Opt 4 Start: Output 1 operates as a Remote Start trigger output (to an Add-on remote starter)
   - Opt 5 Aux 1: Output 1 operates as the AUX 1 output when activating from the app
   - Opt 6 Aux 2: Output 1 operates as the AUX 2 output when activating from the app
   - Opt 7 OEM Arm: Output 1 operates as Factory Alarm Arm and pulses prior to the Lock pulse from the system when Locking from the app
   - Opt 8 OEM Disarm: Output 1 operates as Factory Alarm Disarm and pulses prior to the Unlock pulse from the system when Unlocking from the app
5. Output 2 same option choice and definitions as Output 1 options except default option is 2: Unlock
6. Output 3 same option choice and definitions as Output 1 options except default option is 3: Trunk (Please refer to * note after Menu table for this Opt.)
7. Output 4 same option choice and definitions as Output 1 options except default option is 4: Start (Please refer to * note after Menu table for this Opt.)
8. RF Learning 1: Off/Keeloq/Supercode/Astro
   - Off (Flex Out): The RF function of the unit is disabled and the Flex Outputs are active*.
   - Keeloq: Directed older generation receiver technology
   - Supercode: Directed new generation receiver technology
   - Astro: AstroStart receiver technology

   Note: When setting up the Bluetooth system for an RF Type, you can enter the remote programming procedure of the host system and proceed through each option to program the RF output of the Bluetooth system (see RF Learning Procedure section of this guide for more information).
9. RF Learning 2 (Autostart), HDR-AM type 1,2,3,4/HDR-FM/LDR FM
   - AS HDR AM: Autostart HDR (AM based) receiver technology.
   - AS HDR FM: Autostart HDR (new generation FM based) receiver technology.
   - AS LDR: Autostart LDR (older generation) receiver technology.

   Note: When setting up the Bluetooth system for an RF Type, you can enter the remote programming procedure of the host system and proceed through each option to program the RF output of the Bluetooth system (see RF Learning Procedure section of this guide for more information).
10. Factory Reset, returns the system to the factory default settings. When resetting the unit, the features programming mode exits and is indicated by the LED flashing Red/Blue once. It can be re-entered utilizing the Features Programming Procedure.
    Note: Resetting the unit does not delete the Paired Smartphone from memory (if one is already programmed), therefore, the Blue LED stays on after the reset.

RF Programming & Transmitter Learn Procedure:

Note: The following selects the correct RF mode to communicate with the security/remote start system, while simultaneously teaching the Bluetooth module to that system as a remote. Follow the steps in the exact sequence below in order to complete this procedure in a single sequence.

RF Learning 1 (For AutoStart use RF Learning 2)

1. Enter the Features & RF Option Menu for the Bluetooth module (see Features Programming Procedure section)
2. Choose option #8, then STOP
3. Place the security/remote start system in Transmitter Learn Routine.
4. Go back to the SmartStart Bluetooth module, and press the Pair button to select the correct RF option for the host system, using the number of blue LED flashes to determine which option step you have reached. Press once for option 1 then again for Option 2 after the LED flashes, and so on until you reach the correct RF option.
5. Each time the an RF option is selected, the Bluetooth module sends the host system a lock command using that RF protocol. When the correct RF type is selected, the host system will recognize the command and return a learned confirmation as when programming a transmitter.
6. Exit the programming mode on both systems.
7. RF Type is now programmed, and the host system recognizes the Bluetooth module as an authorized remote control.

You may have to cycle through the RF options more than once before the command is recognized and the confirmation is received.

Note: some security/remote start systems may only stay in Transmitter Learn Routine for a very short period of time, so you need to complete steps 2 through 4 quickly. If the host system exits Learn Routine before you're reached the correct RF Option for that model, just place it back in Learn Routine and continue pressing the Pair button on the Bluetooth module. The Bluetooth module stays in programming mode for 60 seconds following any button press, and you can also loop in the same feature menu so if you missed the correct RF option, keep pressing the Pair button to loop around to that option again.

RF Learning 2 (Autostart only)

1. Enter the Features Option Menu for the Bluetooth module (see Features Programming Procedure section).
2. Choose Item #9 then STOP.
3. Put the host system in learn mode.
4. Select the appropriate RF option (see Autostart RF type table)
5. Press and hold the Pair button (Autostart requires holding the button for an extended period).
6. The host system should return a learned confirmation via the Parking lights. If no reply, then the RF mode is incorrect, check the table or try another one.

Autostart RF type Table

RF Menu 9 steps:	Opt 1	Opt 2	Opt 3	Opt 4	Opt 5	Opt 6
RF type:	HDR-AM-TYPE1	HDR-AM-TYPE2	HDR-AM-TYPE3	HDR AM-TYPE4	HDR FM	LDR FM
Model list:	1W 5btn RS/Combo	1W 4btn Combo	1W 2btn RS	1W 4btn RS	2W LED/LCD RS/Combo	2W LED/LCD RS
AUTOSTART	AS-1775, AS-6270		AS-1271, AS-1272	AS-1475, AS-1470	AS-2371TW-FM, AS-1875FM, AS-2471TW-FM, AS-6870TW-FM	
AUTOSTART USA	AS-2775, AS-1775U, AS-6270U		AS-2272, AS-1272U, AS-1271U	AS-1475U	AS-3372TW-FM, AS-2372TWU, AS-3472TW-FM, AS-2472TWU, AS-6870TWU	
PolarStart	PS-3175, PS-3175E, PS-7270				PS-3675FM, PS-7870TWE-FM	PS-4461TWE-FM PS-4661TWE-FM, PS-3655EFM
Nordic Start				NS-1074	NS-2430TW-FM, NS-2432TW-FM NS-5070TW-FM	
Command Start	CS-398i				CS-2371TW-FM, CS-2372TW-FM, CS-1875i, CS-2471TW-FM, CS-2472TW-FM, CS-6870TW-FM	
Orbit						OB-3475, OB-3671, OB2471
Prostart		CT-3471, CT-5072, CT-5472	CT-3271	CT-3371		
Premier Defense	PD-2.8				PD-371, PD-372, PD-471, PD-472, PD-870	
Visions					AS-2373TW-FM-v, AS-2472TW-FM-v	

Note: Panic and Trunk may not be supported on all models.

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LADDSMP0

LIMITED ONE YEAR CONSUMER WARRANTY

For a period of ONE YEAR from the date of purchase of a Directed Electronics remote start or security product, Directed Electronics. ("DIRECTED") promises to the original purchaser, to repair or replace with a comparable reconditioned piece, the security or remote start accessory piece (hereinafter the "Part"), which proves to be defective in workmanship or material under normal use, provided the following conditions are met: the Part was purchased from an authorized DIRECTED dealer; and the Part is returned to DIRECTED, postage prepaid, along with a clear, legible copy of the receipt or bill of sale bearing the following information: consumer's name, address, telephone number, the authorized licensed dealer's name and complete product and Part description.

This warranty is nontransferable and is automatically void if the Part has been modified or used in a manner contrary to its intended purpose or the Part has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defect in materials or construction.

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920-0007-01 2009-09

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DANS LA PLEINE MESURE PERMISE PAR LA LOI, MIS À PART SUSMENTIONNÉ, TOUTE GARANTIE, Y COMPRIS SANS EXCLURE TOUTE GARANTIE EXPRESSE, TACITE, GARANTIE DE QUALITÉ MARCHANDE, APTITUDE À UN USAGE PARTICULIER ET GARANTIE DE NON-VIOLATION DE PROPRIÉTÉ INTELLECTUELLE SONT EXPRESSÉMENT EXCLUES; ET Directed N'ASSUME NI N'AUTORISE QUICONQUE À ASSUMER UN QUELCONQUE DEVOIR, OBLIGATION OU RESPONSABILITÉ RELIÉ À SES PRODUITS. Directed DÉSAVOUE ET REJETTE TOUTE RESPONSABILITÉ QUANT À TOUTE ACTION ENTREPRISE PAR DE TIERCES PARTIS, INCLUANT SES DÉTAILLANTS OU INSTALLATEURS AUTORISÉS. TOUT CONFLIT OU RÉCLAMATION IMPLIQUANT Directed OU SES SUBSIDIAIRES EST RÉGIS PAR LES LOIS DU COMTÉ DE SAN DIEGO, DANS L'ÉTAT DE LA CALIFORNIE. LES LOIS LOCALES DE LA CALIFORNIE AINSI QUE TOUTES LES LOIS FÉDÉRALES APPLICABLES GOUVERNERONT LE LITIGE. LA COMPENSATION POUR TOUTE RÉCLAMATION CONTRE Directed SERA STRICTEMENT LIMITÉE AU PRIX D'ACHAT DE L'UNITÉ AUPRÈS D'UN DÉTAILLANT Directed AUTORISÉ. Directed NE SERA PAS TENU RESPONSABLE DE QUELQUES DOMMAGES QUE CE SOIT, INCLUANT MAIS NON LIMITÉ AUX DOMMAGES INDIRECTS, ACCESSOIRES, PERTE DE TEMPS, PERTE DE REVENU, PERTE COMMERCIALE, PERTE D'OPPORTUNITÉ ÉCONOMIQUE, ETC. NONOBSTANT CE QUI PRÉCÈDE, LE FABRICANT OFFRE UNE GARANTIE LIMITÉE DE REMPLACEMENT OU DE RÉPARATION, À LA DISCRÉTION DE DIRECTED, DU MODULE DE COMMANDE.

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